

Stimulus	EPO		U/ml		EPORp		(nM)		Densitometry																			
	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1	-	0.1		
IP: αPY																												
WB: αEPOR																												

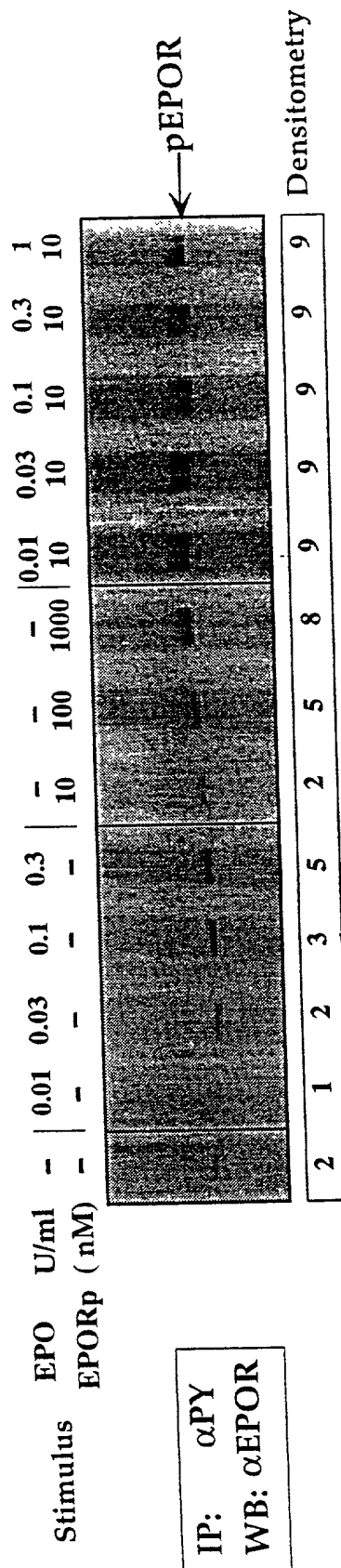
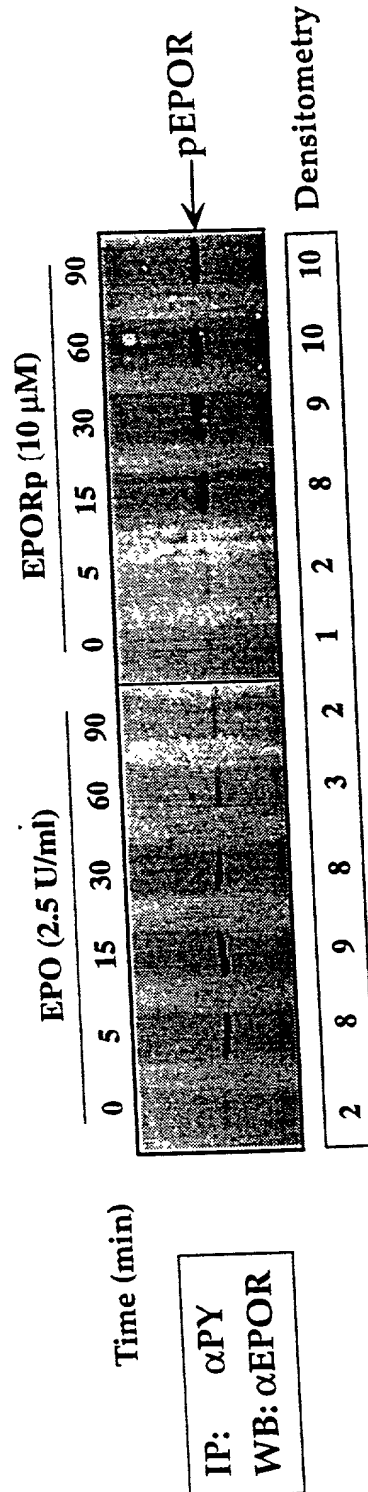


FIG. 2

# EPO-Rp promotes tyrosyl phosphorylation and activation of EPO-Receptor

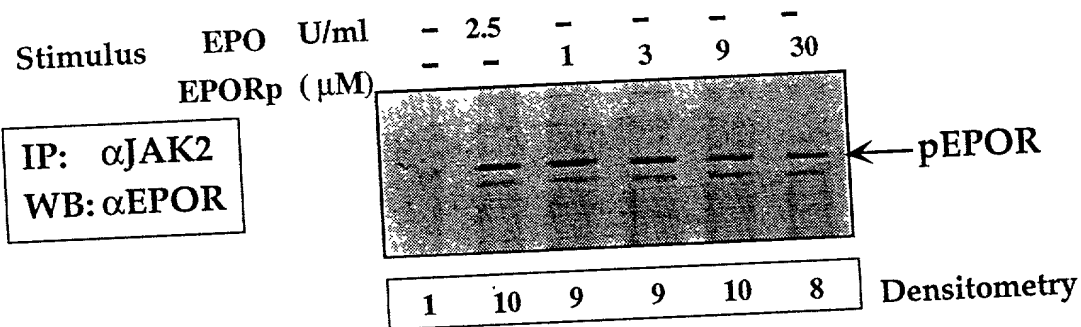
Time course



Stimulus	EPO		EPORp (μM)											GHRp					
	-	-	-	2.5	-	-	-	-	0.01	0.03	0.1	0.3	1		3	10	30	60	
IP: αPY																			
WB: αEPOR																			
	1	4	1	3	5	6	8	9	10	4	2	1							
													Densitometry						

FIG. 4

EPO-Rp - promotes EPO-Receptor dimerization  
and association with JAK2



EPO-Rp selectively activates EPO-receptor

FIG. 5

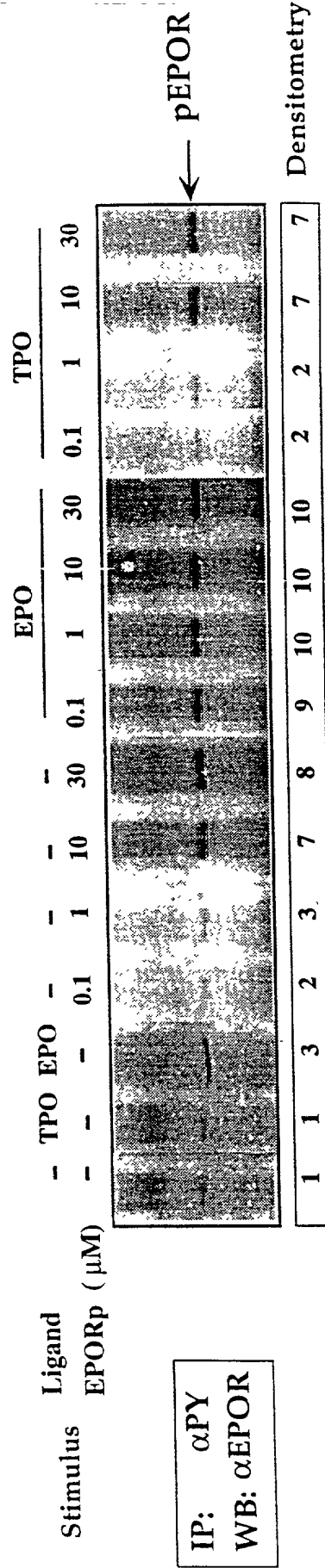
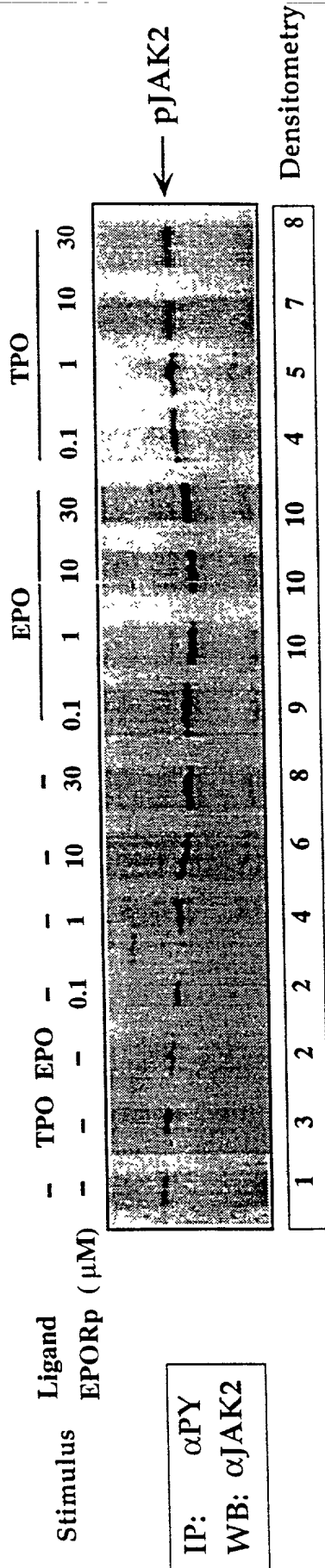


FIG. 6

Erythropoietin Derived Receptor derived Peptide (EPO-Rp)  
inhibits Internalization of the EPO-Receptor

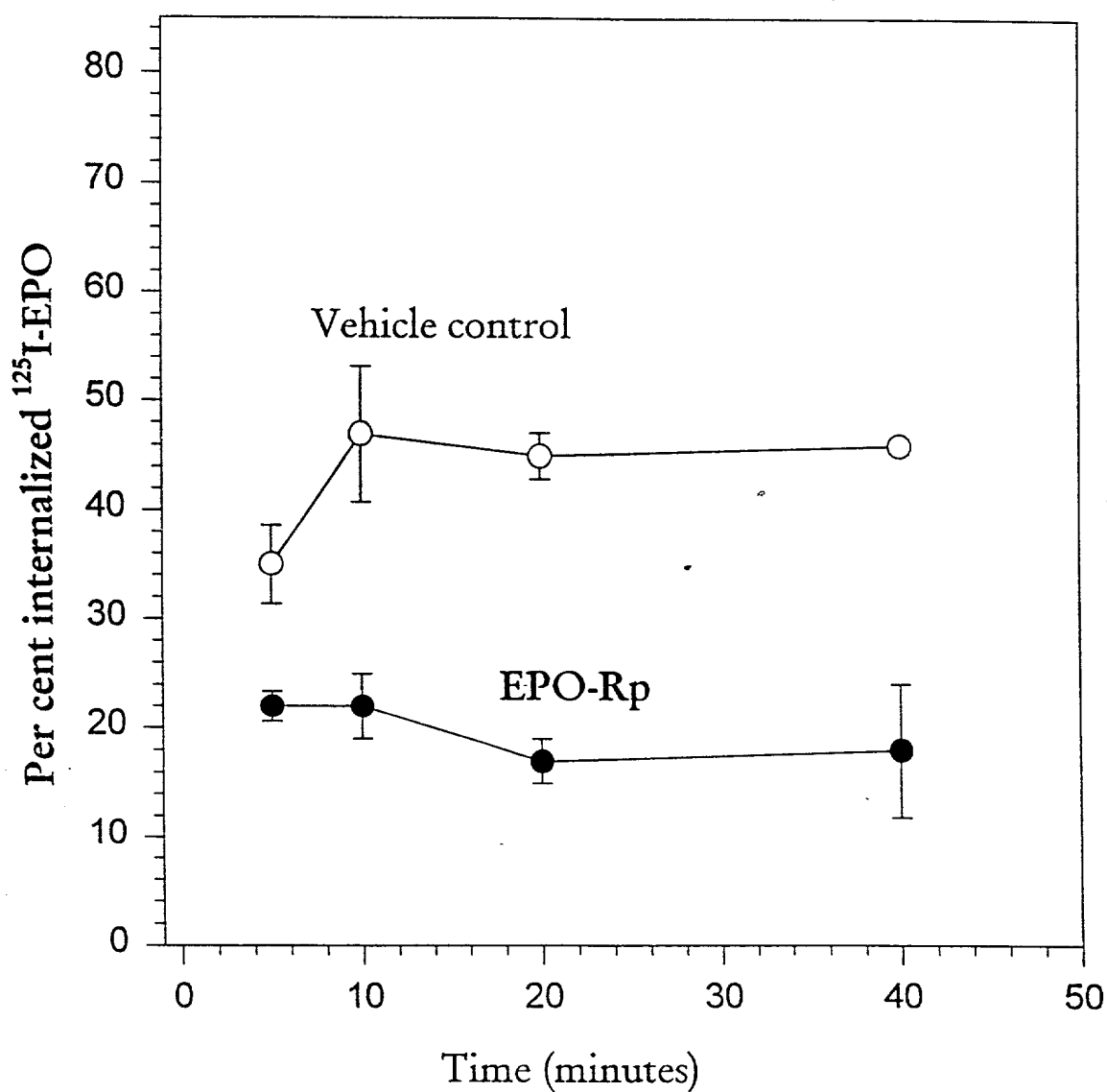
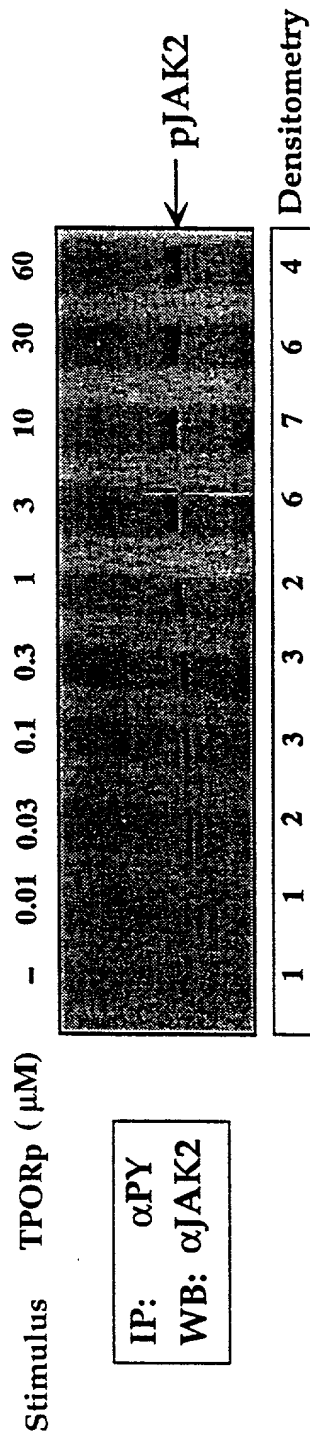


FIG. 7

Activation (phosphorylation) of JAK2 by TPORp

Dose response



# TPO-Rp selectively activates TPO-receptor

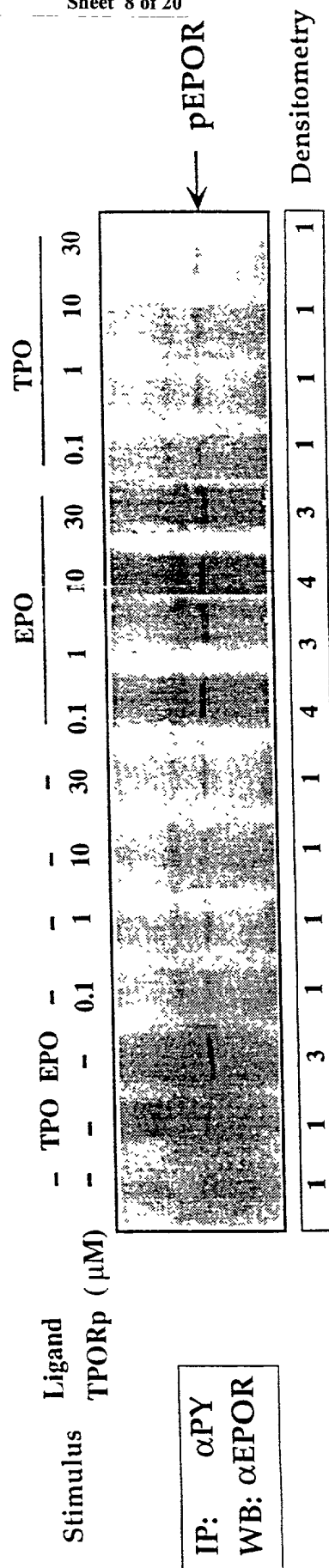
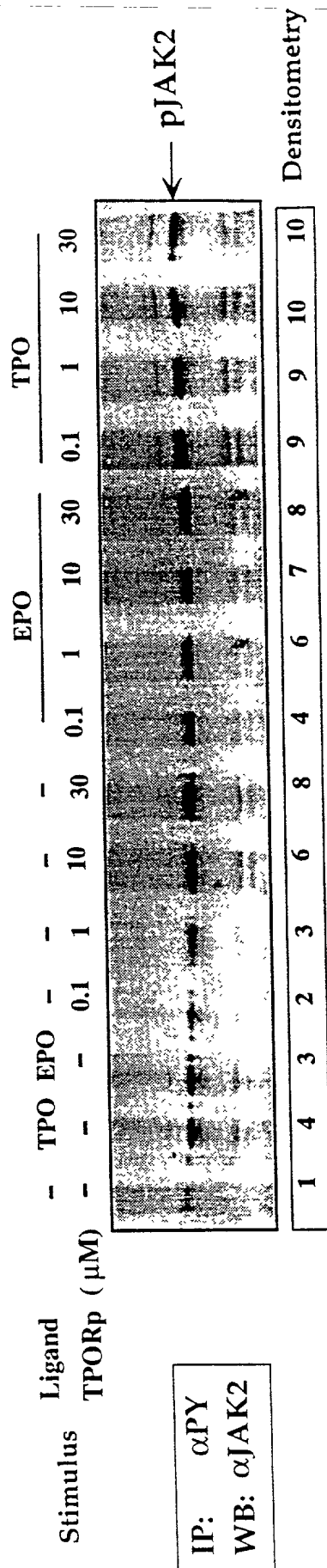
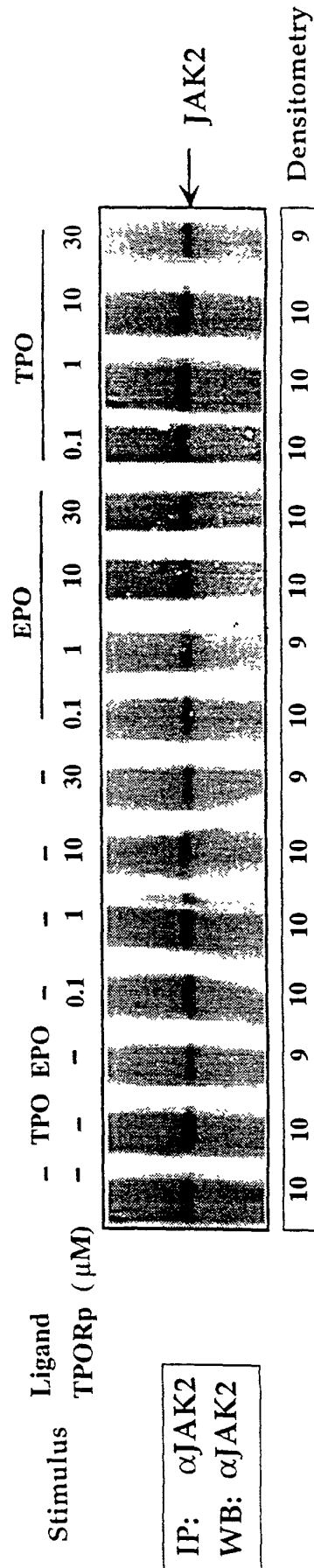
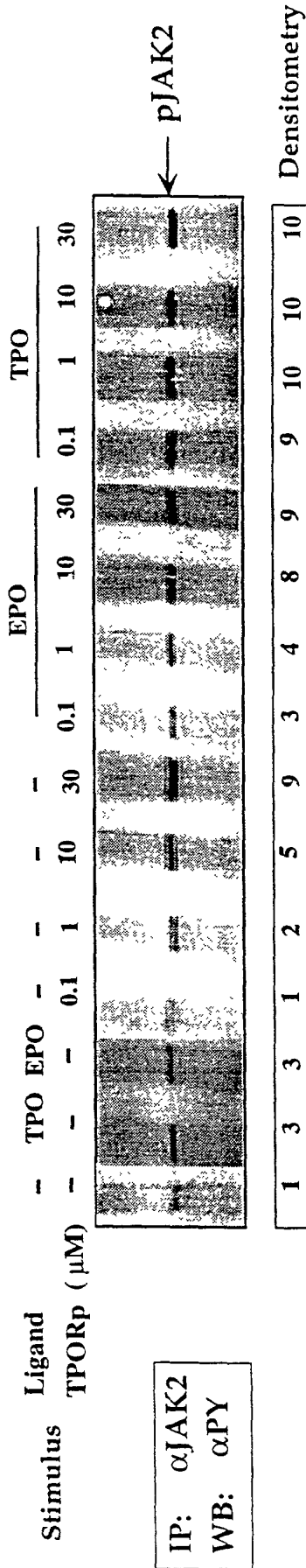


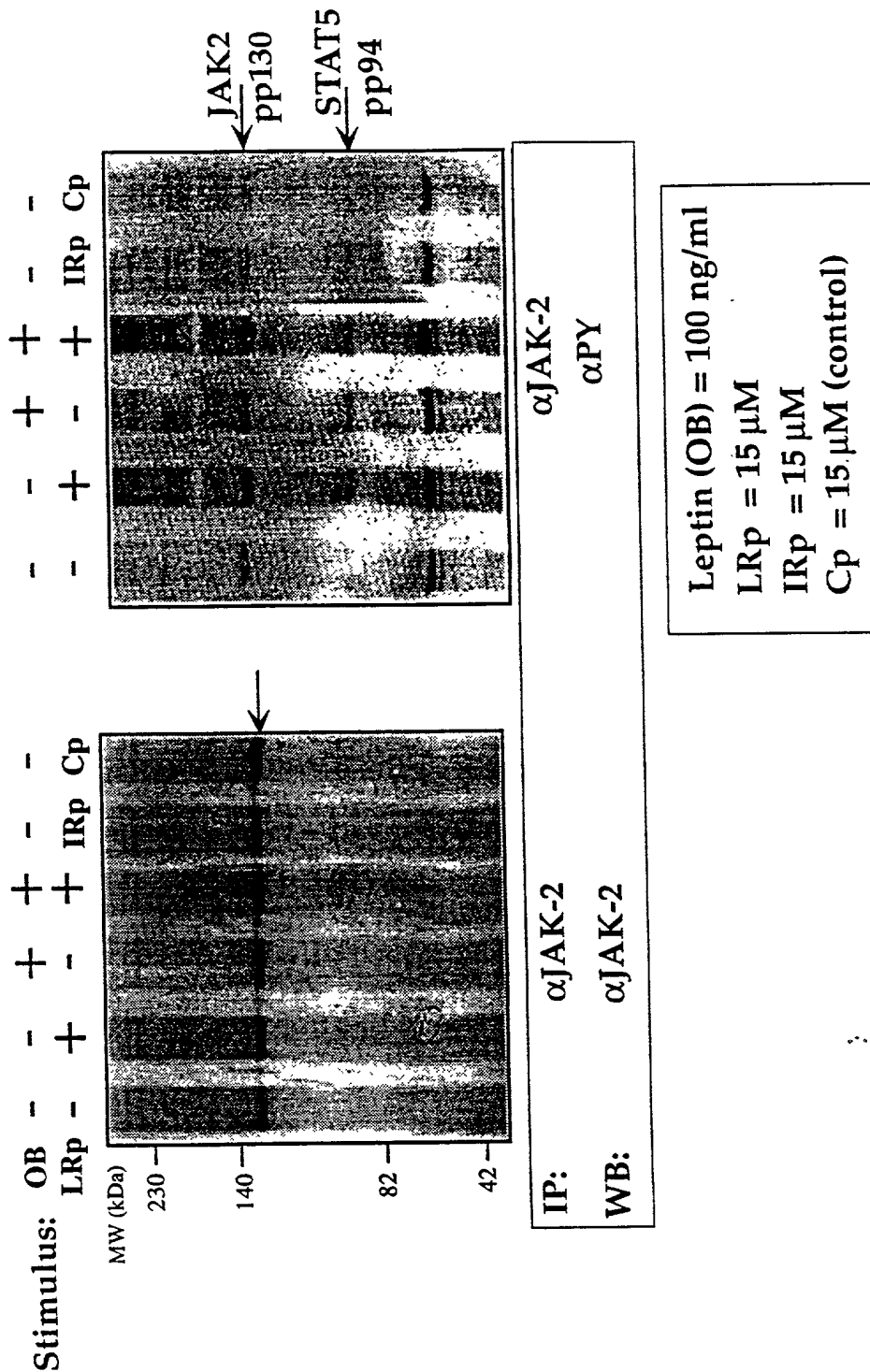


FIG. 9

# TPO-Rp selectively activates TPO-receptor



# Effect of LRP on Leptin Receptor Signaling (OB-R<sub>L</sub>)



**FIG. 11**  
**LRp - enhances signaling through OB-R<sub>L</sub>**  
**Activation of JAK2**

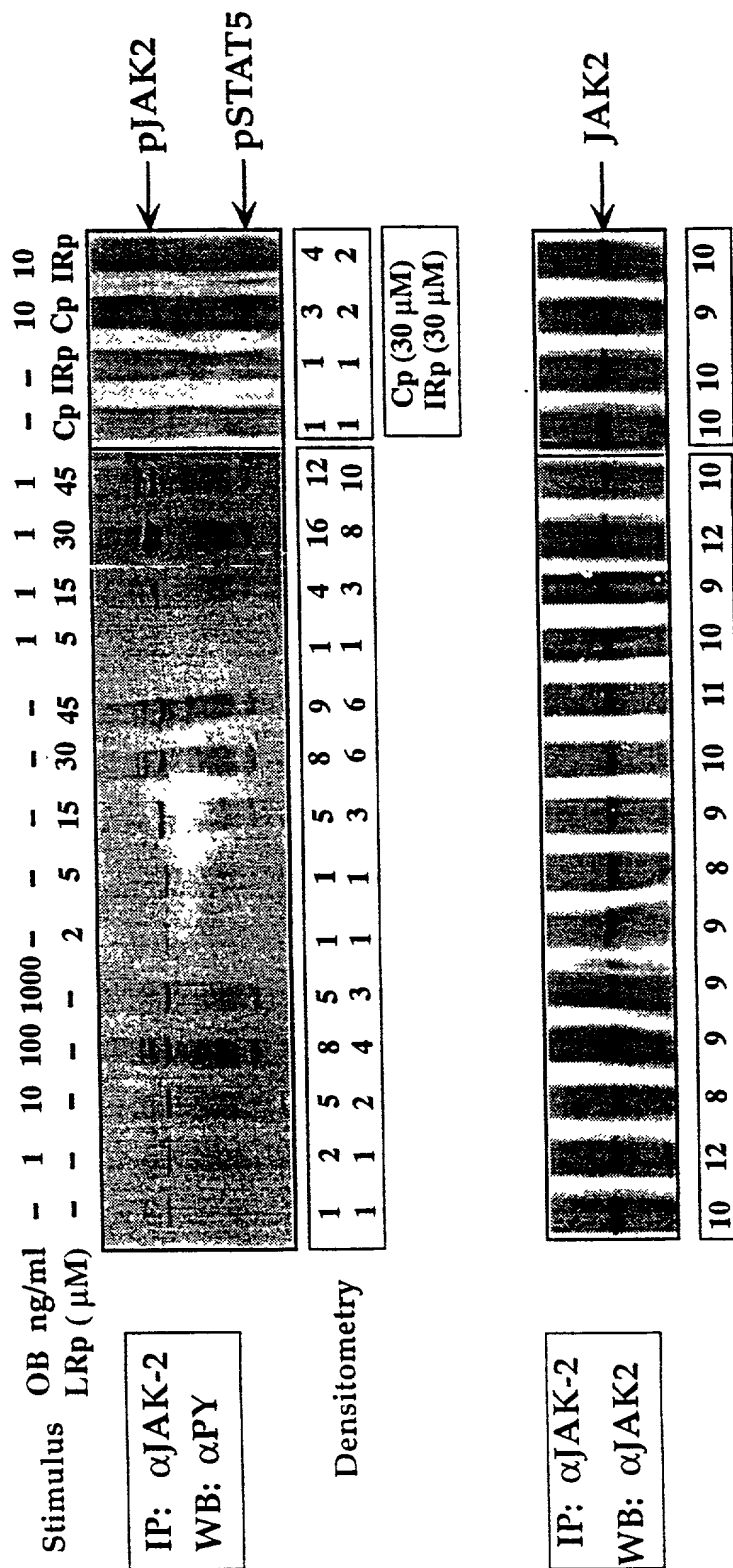
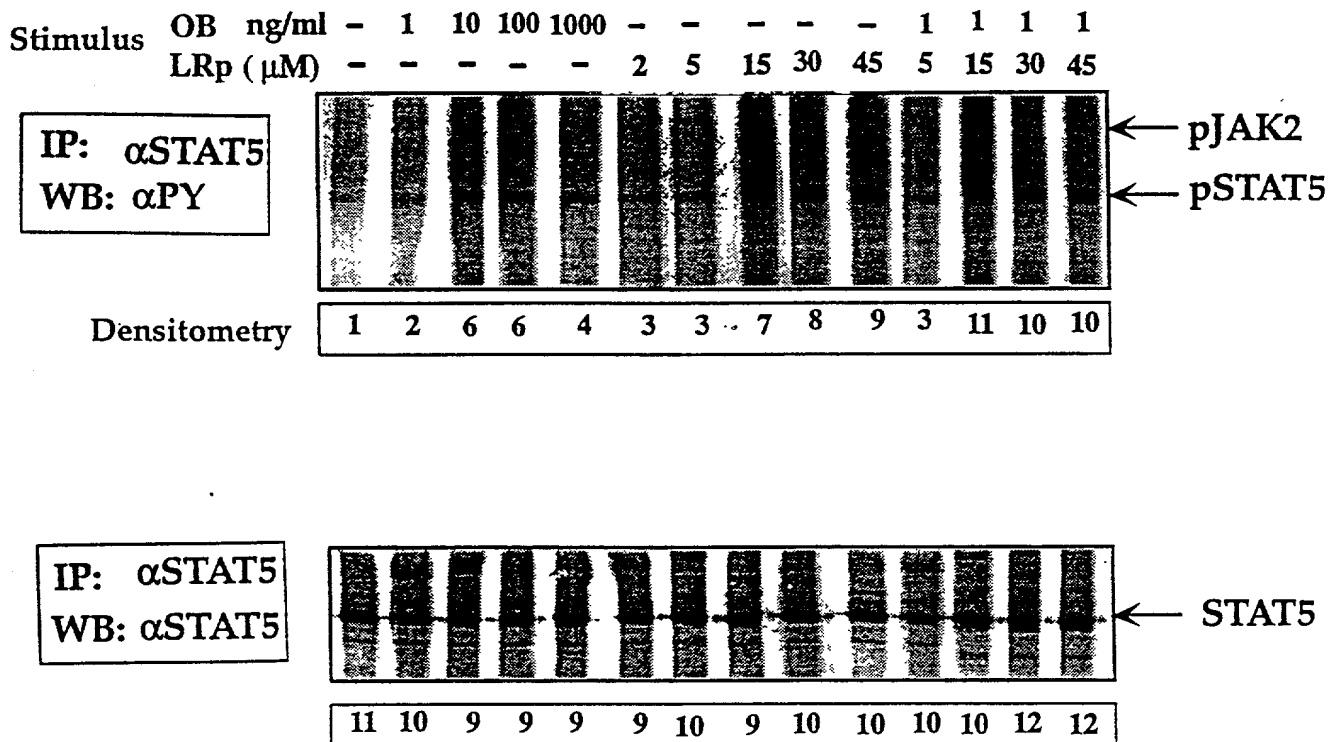


FIG. 12

# LRp - enhances signaling through OB-R<sub>L</sub>

## Activation of STAT5



09945451660

# LRp - agonist of OB-R<sub>s</sub> signaling

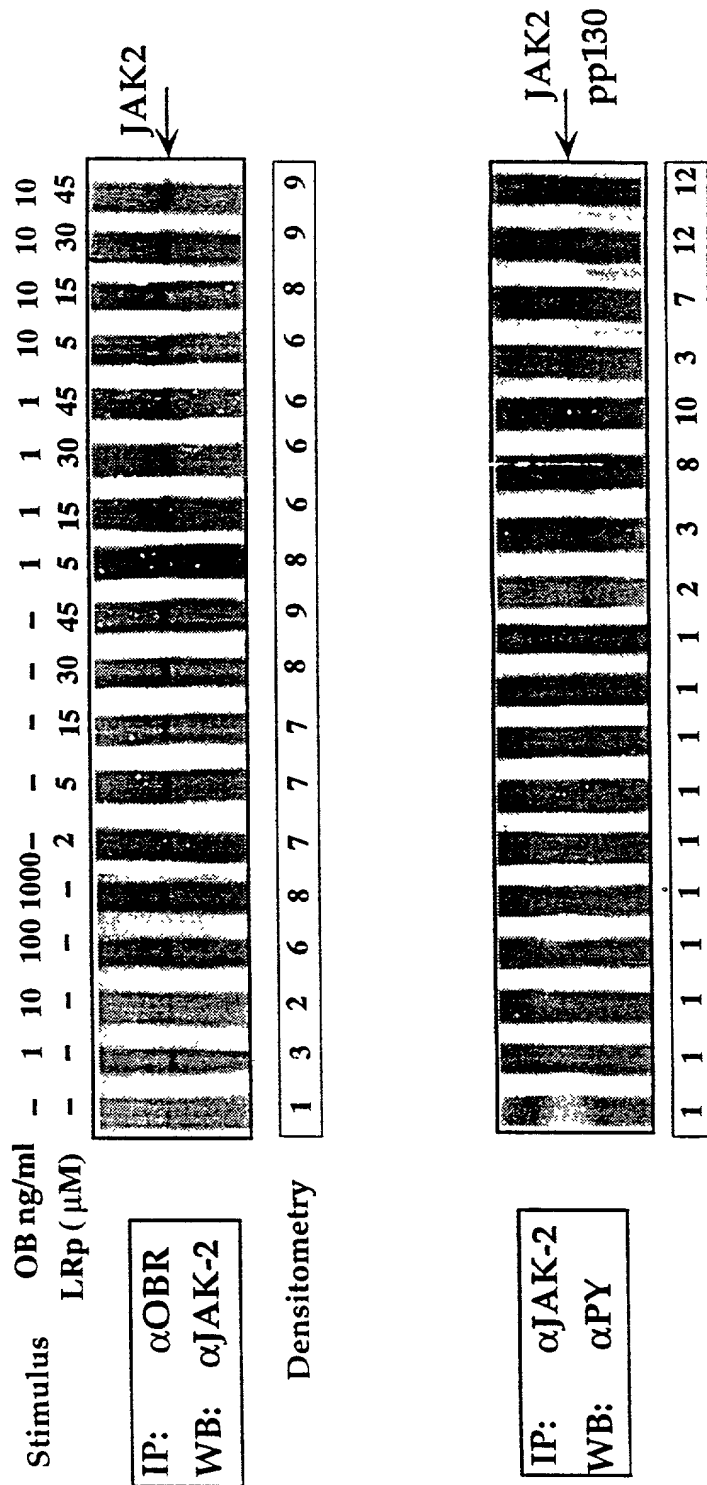
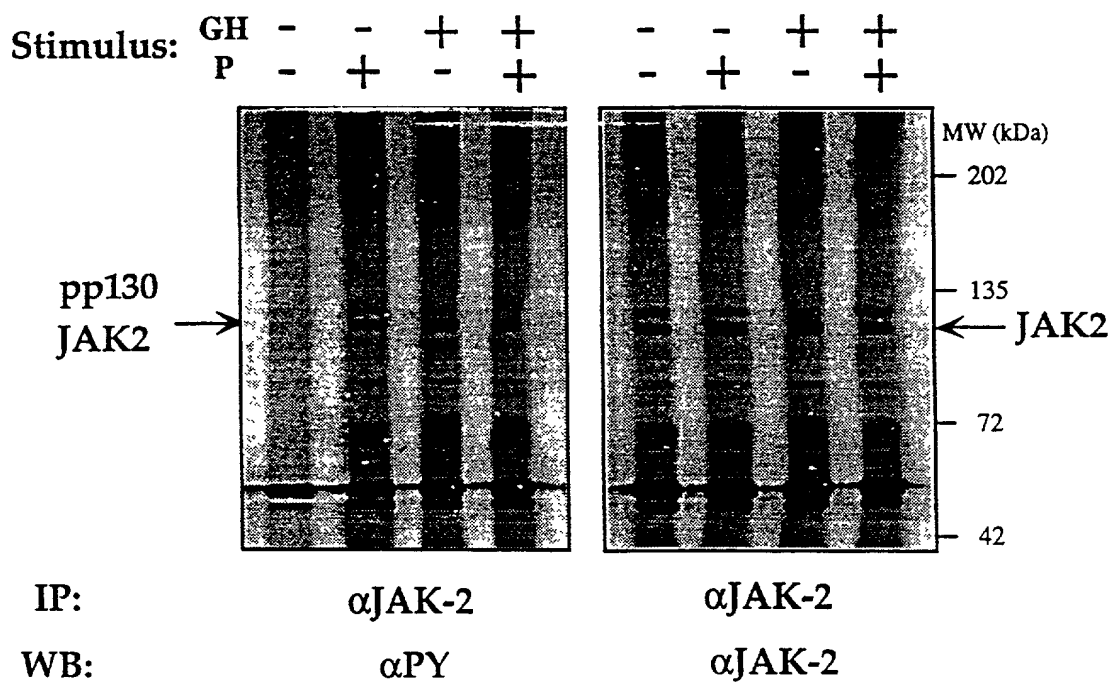


FIG. 14

# JAK2 activation by GHR.peptide



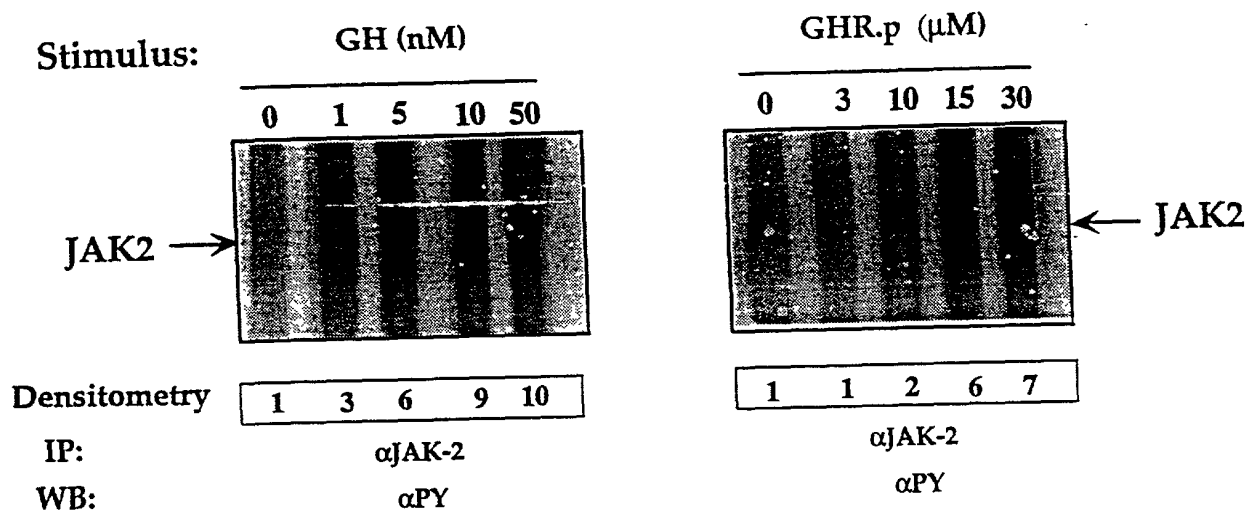
Growth Hormone (GH) = 10 nM

GHR.peptide (P) = 30 μM

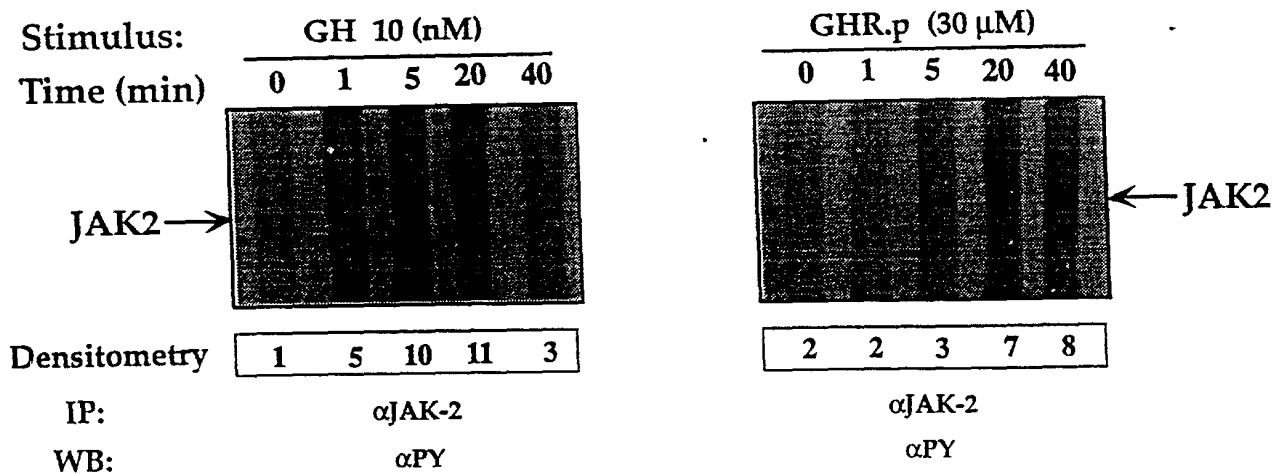
FIG. 15

# GHR-peptide promotes tyrosyl phosphorylation of JAK2

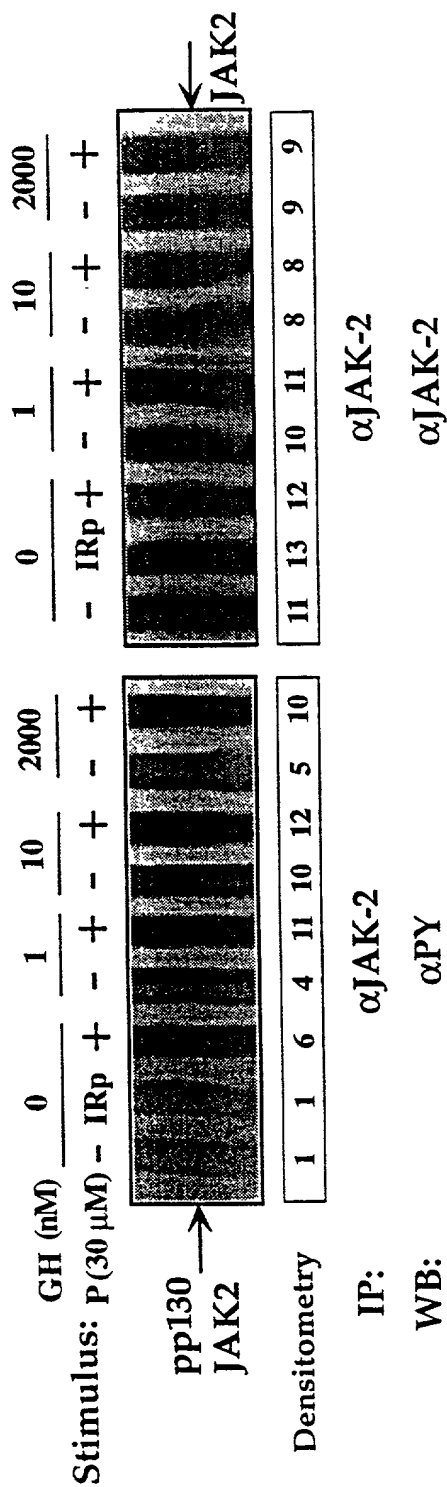
## Dose response



## Time course



## GHR peptide - agonist of GH activation



### Suggested peptide mode of action

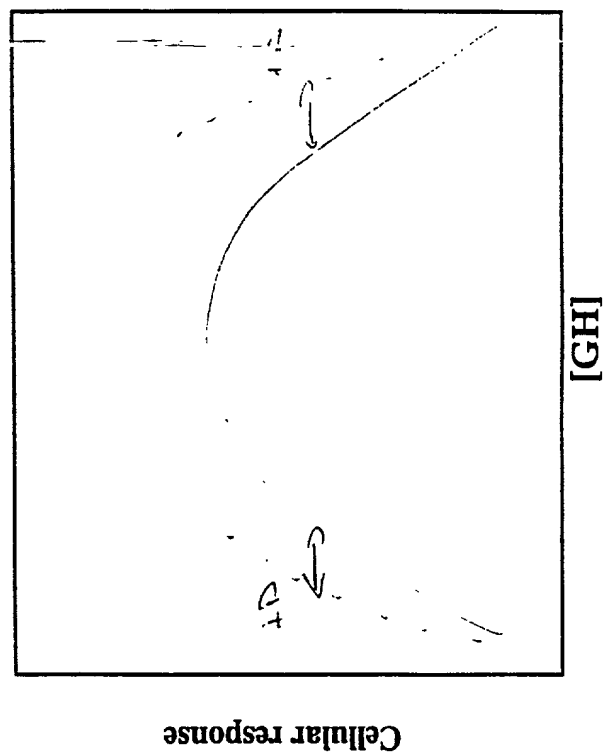




FIG. 17

# Synergistic effect of GHRp on JAK2 activation

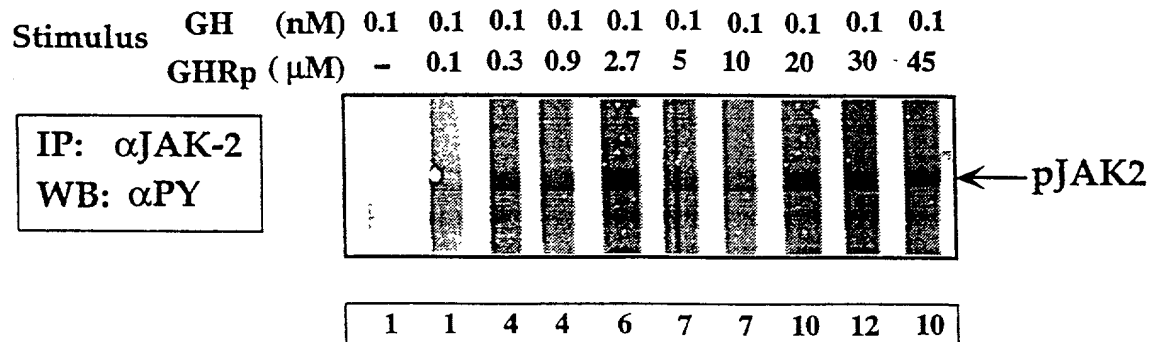
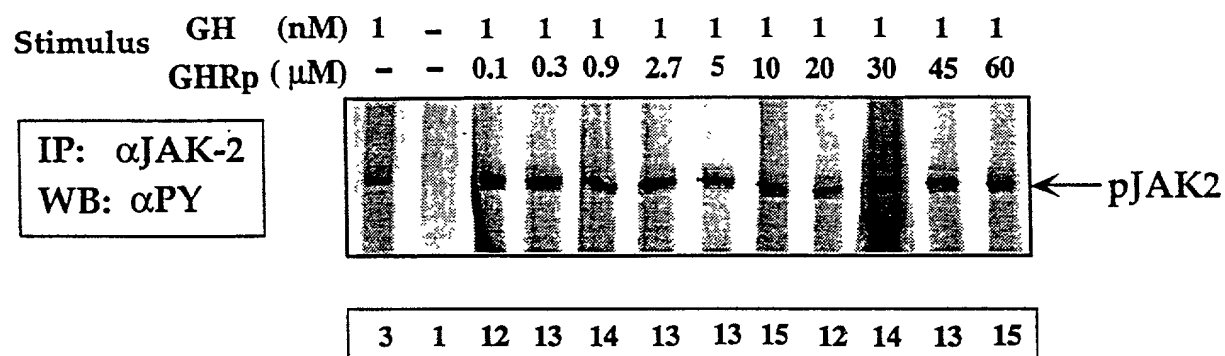
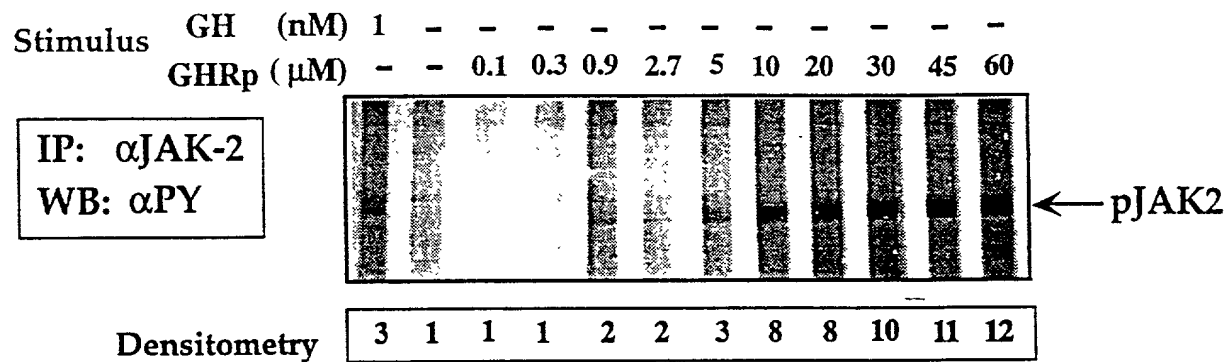
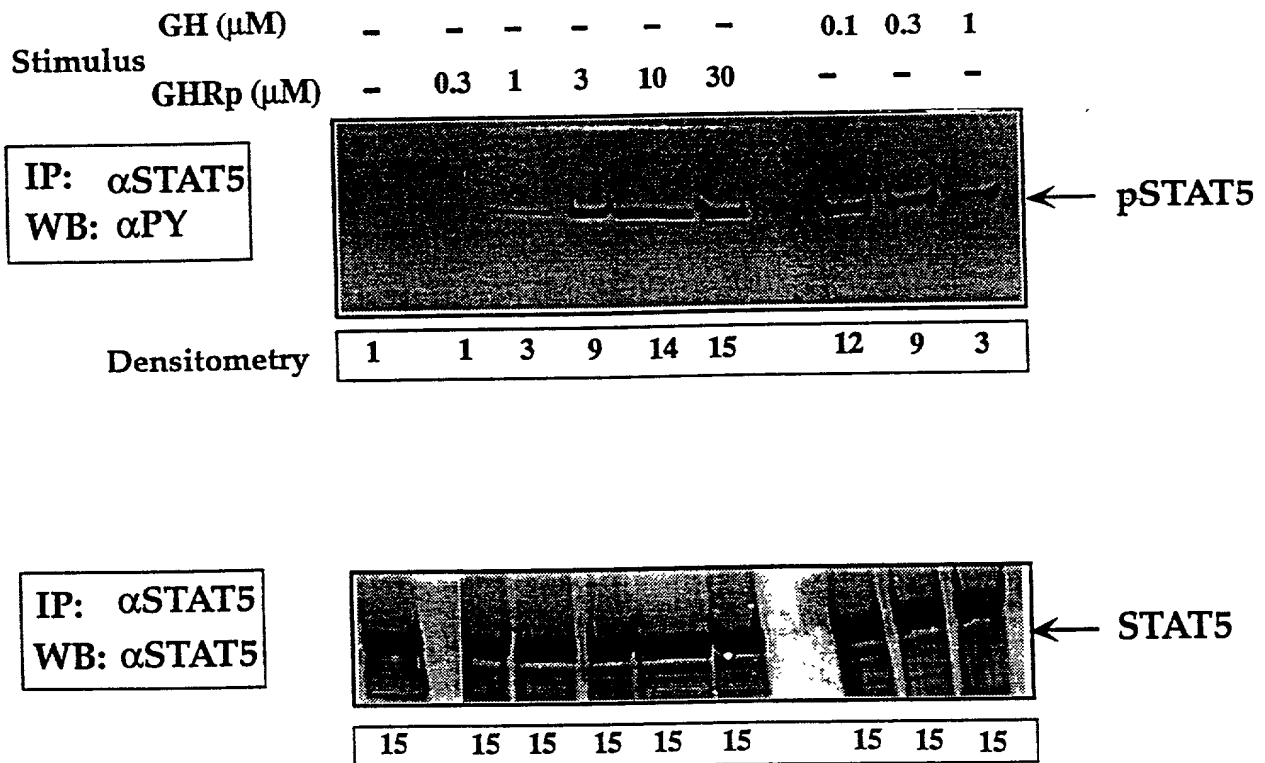


FIG. 18

# GHRp - enhances signaling through GH-R

## Activation of STAT5



[illegible]

FIG. 20

**Human Growth Hormone Receptor derived Peptide (hGH-Rp)  
inhibits selectively Internalization of the GH-Receptor**

Control peptides derived from IGF-1R and Prolactin Receptor (PL)  
had no effect on hGH-R, but on IGF-1R and PL-R, respectively

